## **AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims**

1. (Currently Amended) <u>A method</u> for access control in a multicast system when distributing data from a source (VS) on a common link (L3) to at least two users (U1-U12) via a node, comprising the following steps: (BN21), characterized by the following steps:

assigning a weight to each user(U1-U12) associated with the node (BN21), which wherein the weights of each user determine each user's allowed bandwidth. i.e. bandwidth allowed to use out of available bandwidth on the common link (L3);

receiving to the node (BN21), a request to join a multicast session(S81), from a first user-(U1); and

comparing, in the node (BN21), actual bandwidth usage by the <u>first</u> user (U1) with the first user's allowed bandwidth, wherein the actual bandwidth usage is calculated as the sum of the <u>first</u> user's <u>allowed</u> bandwidth <u>portion</u> part of each used session on the common link (L3) including and the actual bandwidth usage by the first user the new request, with the users (U1) allowed bandwidth.

- 2. (Currently Amended) The method for access control in a multicast system according to claim 1, <u>further comprising</u>: <del>comprising the following further step</del>: <del>deny denying</del> the request if the <u>first user's</u> allowed bandwidth is lower than the actual bandwidth.
- 3. (Currently Amended) <u>The</u> method for access control in a multicast system according to claim 1, <u>further</u> comprising the following-<u>further</u>-steps:

finding-out determining that the requested multicast session  $(S_{gf})$  is used by at least one other user (U8, U12); and

allowing the request from the first user. U1.

4. (Currently Amended) <u>The</u> method for access control in a multicast system according to claim 1, <u>further</u> comprising the following-<u>further</u>-steps:

perceiving determining that the <u>first</u> user (U1) used the session  $(S_{gt})$  less than a predefined <u>period of time</u> qualification time ago;

changing, temporarily, the <u>first</u> user's weight; <u>and</u> allowing the request if the allowed bandwidth is higher than the actual bandwidth.

5. (Currently Amended) The method for access control in a multicast system according to claim 4, comprising before changing the user's weight, the following further-step:

perceiving prior to changing the first user's weight, determining that the first user used the session  $(S_{gl})$  during a time period for a period of time that exceeds a predetermined guarantee time.

- 6. (Currently Amended) The method for access control in a multicast system according to claim 4 or 5, comprising the following further steps: the first user leaving (U1) leaves the requested session  $\mathcal{S}_{g,i}$ ; and changing back the first user's weight to the weight's it's original value.
- 7. (Currently Amended) An arrangement Arrangement for access control in a multicast system when distributing data from a source (VS) on a common link (L3) to at least two users (U1-U12) via a node (BN21), the arrangement comprising: which arrangement is characterized by:

means for assigning a weight to each user (U1-U12) associated with the node (BN21), which weights determine the weights determining each user's allowed bandwidth; i. e. bandwidth allowed to use out of available bandwidth on the common link (L3);

means in the node (BN21) for receiving a request to join a multicast session  $(S_{21})$ , from a <u>first</u> user (U1);

means for comparing, in the node (BN21), actual bandwidth usage by the <u>first</u> user (U1) to the <u>first</u> user's allowed bandwidth, wherein the <u>first</u> user's actual bandwidth usage is calculated as the sum of the <u>first</u> user's <u>allowed</u> bandwidth <u>portion</u> part of each used session on the common link <u>and the actual bandwidth</u> usage by the <u>first</u> user (L3) including the new request, with the users(U1) allowed bandwidth.

- 8. (Currently Amended) <u>The arrangement Arrangement</u> for access control in a multicast system according to claim 7, comprising means for denying the request if the <u>first user's</u> allowed bandwidth is lower than the actual bandwidth.
- 9. (Currently Amended) <u>The arrangement Arrangement for access</u> control in a multicast system according to claim 7, comprising:
- means for <u>determining</u> finding out that the requested session  $(S_{g,l})$  is used by at least one other user (U8, U12); and
  - means for allowing the request from the first user-U1.
- 10. (Currently Amended) <u>The arrangement Arrangement for access</u> control in a multicast system according to claim 7, comprising:
- means for <u>determining</u> <del>perceiving</del> that the user <del>(U1)</del> used the session  $(S_{si})$  less than a predefined <u>period of time</u> <del>qualification time ago</del>;
  - means for changing temporarily changing the first user's weight;
- means for allowing the request if the <u>first user's</u> allowed bandwidth is higher than the actual bandwidth.
- 11. (Currently Amended) The arrangement Arrangement for access control in a multicast system according to claim 10, comprising:
- means for determining perceiving that the first user used the session  $(S_{st})$  during a time period that exceeds a predetermined guaranteed time period guarantee time.

- 12. (Currently Amended) The arrangement Arrangement for access control in a multicast system according to claim 10 or 11, further comprising means for changing back the first user's weight to the weight's it's original value.
- 13. (Currently Amended) The arrangement Arrangement for access control in a multicast system according to claim 7, further any of the claims 7-12 comprising means for calculating the first user's (U1) actual bandwidth.
- 14. (Currently Amended) The arrangement Arrangement for access control in a multicast system according to claim 7 further any of the claims 7-13 comprising means for calculating the first user's (U1) allowed bandwidth.